C-XV Design, Analysis, and Fabrication of Welded Structures

Agenda for the 2026 Annual Assembly

XV-1742-2026

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Comments:

The meeting is scheduled to take place during the 79th IIW Annual Assembly, which will be held from 12 to 17 July 2026 in Salzburg, Austria.

Sessions:

1 **13 July 2026** *Venue:* Room Trapp (10:00AM - 12:30PM)
2 **14 July 2026** *Venue:* Room Trapp (08:30AM - 12:30PM, 14:00-18:00PM)

Joint Meeting(C-X + C-XIII + C-XV):

15 July 2026 *Venue:* Room Mozart4-5 (08:30AM - 10:15AM)

1. Agenda for the AA Meeting

Time	Agenda Item	Doc	Responsibility	Action
13/July	1 Welcome Address & Introduction			
10:00	1.1 Member introductions, apologies, guests		Members	information
10:10	1.2 Approval of the Agenda	XV-1742-2026	Prof. Kyong-Ho Chang	Motion Required
10:20	1.3 Approval of the minutes from the intermediate meetings	XV-1741-2026	Prof. Kyong-Ho Chang	Motion Required
10:25	2 SESSION 1: Administrative matters			
	2.1 Annual Report 2026 of SC-A (Analysis)	XV-1743-2026	Prof. Kyong-Ho Chang	Presentation and Discussion
	2.2 Annual Report 2026 of SC-C (Fabrication)	XV-1744-2026	Dr. Samuel Chance	
	2.3 Annual Report 2026 of SC-D (Planar Structures)	XV-1745-2026	Prof. Koji Azuma	
	2.4 Annual Report 2026 of SC-E (Tubular Structures)	XV-1746-2026	Prof. Tak-Ming Chan	
	2.5 Annual Report 2026 of SC-F (Economy)	XV-1747-2026	Prof. Karoly Jarmai	
	2.6 Annual Report 2026 of SC-G (AI4WeldedStructures)	XV-1748-2026	Prof. Moritz Braun	
	2.7 Annual Report 2026 of JWG XIII-XV	XV-1749-2026	Dr. Jörg Baumgartner Prof. Adolf HOBBACHER	

11:20 - 11:40	**Break Time**			Information Q&A
11:40	**3 SESSION 2: TECHNICAL PRESENTATION**			
11:40 - 12:00	**3.1 Corrosion behaviour and fatigue performance of stainless-clad bimetallic steel plate by cold spray additive manufacturing** *Yixun Wang[1], Cheng Zhang[2], Tak-Ming Chan[3], Seiichiro Tsutsumi[4], Yoshisato Kimura[5]* *(Institute of Science Tokyo[1,5] ,The University of Hong Kong[2,3],The University of Osaka[4])*	XV-1750-2026	*Prof. Yixun Wang* *yixun.w.ed22@m.isct.ac.jp*	Presentation Q&A
12:00 - 12:20	**3.2 Fabrication and Mechanical Performance of Multi-Material Steel Components Produced by DED-Arc Additive Manufacturing** *Mohsen Amraei[1]* *(University of Turku)*	XV-1751-2026	*Prof. Mohsen Amraei* *mohsen.amraei@utu.fi*	
12:20 - 12:40	**3.3 Fatigue design and manufacturing aspects of an Inconel bracket produced by laser powder bed fusion** *Kalle Lipiäinen[1], Erin Komi[2], Aleksi Härkönen[3], Shahriar Afkhami[4], Tuomas Skriko[5], Antti Ahola[6]* *(LUT University[1,3,4,5,6], Etteplan[2])*	XV-1752-2026	*Prof. Kalle Lipiäinen* *kalle.lipiainen@lut.fi*	
	Adjournment for the Day			
14/July	**3. Opening of Session**			
08:30	**3. SESSION 2: TECHNICAL PRESENTATION**			
08:30 - 08:50	**3.4 Influence of Abrasive Waterjet Treatment on the Surface characteristics of WAAM 316L** *Kane F. ter Veer[1], Christian Klötzer-Freese[2], Shahram Sheikhi[3], Moritz Braun[4],* *(German Aerospace Center (DLR), Institute of Maritime Technologies and Propulsion Systems[1,4], Mecklenburger Metallguss GmbH(MMG)[2], Hochschule für Angewandte Wissenschaften Hamburg (HAW Hamburg)[3])*	XV-1753-2026	Mr. Kane F. ter Veer kane.terveer@dlr.de	
08:50 - 09:10	**3.5 Mechanical properties and heat-affected zone softening of welding dissimilar joints in thermomechanically processed high- and ultra-high-strength steels**	XV-1754-2026	Dr. Shahriar Afkhami *shahriar.afkhami@lut.fi*	

	Shahriar Afkhami[1], Kalle Lipiäinen[2], Johannes Sainio[3], Vahid Javaheri[4], Antti Ahola[5],Tuomas Skriko[6], *(LUT University[1,2,5,6], SSAB Europe Oy[3], University of Oulu[4])*			
09:10 - 09:30	**3.6 Bending mechanism and microstructural integrity of marine-grade structural steel plates during induction line heating** *Byungjoo Kim[1], Jisu Kim[2], Kyeongmin Kim[3], Seong-min Kim[4], Changsub Song[5], Heekeun Lee[6],* *(Research Institute of Medium and Small Shipbuilding[1,2,3,4,5,6])*	XV-1755-2026	Dr. Byungjoo Kim *bjkim@rims.re.kr*	
09:30 - 09:50	**3.7 Evaluating the microstructural evolution, hardness and monotonic strength of post-weld treated undermatched HSLA fusion welded T joints** *Azhar Sakkiri[1], Alexander Galloway[2], Athanasios Toumpis[3],* *(The University of Strathclyde[1,2,3])*	XV-1756-2026	Prof. Azhar Sakkir *azhar.sakkir@strath.ac.uk*	
09:50 - 10:10	**3.8 Experimental Evaluation of the Quality of Laser-Cladded Layers** *Ján Viňáš[1] ,Jakub Brezina[2],Marek Grega[3],* *(Technical University of Košic[1,2,3])*	XV-1757-2026	Prof. Janette Brezinová *janette.brezinova@tuke.sk*	
10:10 - 10:30	**3.9 An Intelligent Heat Source Model and Efficient Simulation Approach for Multipass Welding Process** *Hui Huang[1], Junda Jiang[2], Yongbing Li[3], Ninshu Ma[4]* *(Shanghai Jiao Tong University[123], The University of Osaka[4])*	XV-1758-2026	Prof. Hui Huang *huang.hui87@sjtu.edu.cn*	
10:30 - 11:00	**Coffee Break**			
11:00 - 11:20	***3.10* A review of prediction and control methods on welding-induced distortions in large metallic structures** *Federica Mancini[1], Tuomas Skriko[2],* *(LUT University[1,2])*	XV-1759-2026	Prof. Federica Mancini *federica.mancini@lut.fi*	
11:20 - 11:40	**3.11 Effect of Thermal Modeling Assumptions on Prediction Accuracy and Computational Efficiency in Laser-Arc Hybrid Welding Simulation**	XV-1760-2026	Prof. Gang Chen *chengang@g.ecc.u-tokyo.ac.jp*	

	Gang Chen[1], Mikihito Hirohata[2], Pang-jo Chun[3], (The University of Tokyo[1,3] The University of Osaka[2])			
11:40 - 12:00	**3.12 Compressive Load-bearing Capacity of Laser-arc Hybrid Welded Corner Joint Members** *Mikihito Hirohata[1], Gang Chen[2], Jiahao Mao[3], Feng Jiang[4], Kenshi Arima[5], Kengo Hyoma[6], Naoyuki Matsumoto[7],* (The University of Osaka[1,3,4], *The University of Tokyo[2], IHI Corporation[5,6,7])*	XV-1761-2026	Prof. Mikihito Hirohata *hirohata@civil.eng.osaka-u.ac.jp*	
12:00 - 14:00	**Lunch Break**			
14:00 - 14:20	Administrative Tasks (Visit from IIW) **3.19 WITW annual report**			
14:20 - 14:40	**3.13 Optimum design of welded and rolled column for fire safety** *Károly Jármai[1], Charles Clifton[2], Mayank Shrivastava[3],* *(University of Miskolc[1], Auckland University[2], Heavy Engineering Research Association (HERA)[3])*	XV-1762-2026	Prof. Károly Jármai *karoly.jarmai@uni-miskolc.hu*	
14:40 - 15:00	**3.14 Fatigue Analysis of Wind Turbine Towers Considering Welding-Induced Imperfections** *Nizam Khan Sazid[1], Kyong-Ho Chang[2], Roque Eguillos[3], Mikihito Hirohata[4]* *(Chung-Ang University[1,2,3], The University of Osaka[4])*	XV-1763-2026	Mr. Nizam Khan *changkor@cau.ac.kr*	
15:00 - 15:20	**3.15 Improving ISO 5817 butt weld fatigue criteria with 3D geometry and stress-life residuals** *Martin Leonel Melucci[1], Sulaiman Shojai[2], Moritz Braun[3],* *(DLR - Institute of Maritime Technologies and Propulsion Systems[1,2,3])*	XV-1764-2026	Mr. Martin Leonel Melucci *martin.melucci@dlr.de*	
15:20 - 15:40	**3.16 Euler- Angle-Based Programming of Robotic Trajectories under Axial Rotation Constraints in Laser Welding of Pipes** *António Pereira[1], Dina Silva[2], Catarina Bastos[3], Nélia Silva[4], Bernardo Mascate[5],*	XV-1765-2026	Prof. Catarina Bastos *abastos@ua.pt*	

	(University of Aveiro[1,2,3,4], Bosch Termotecnologia, S.A. [5])			
15:40 - 16:00	***3.17* Deep-Learning-Based Quantification of Welding Processes and Inter-Welder Comparison Using Images Acquired with a Simple Visualization System** *Kazuki Miyamura[1]* *(Hiroshima University[1])*	XV-1766-2026	Prof. Kazuki Miyamura *m250038@hiroshima-u.ac.jp*	
16:00 - 16:20	**3.18 Development of a Narrow-Gap Horizontal Welding Method with High Bevel Width Allowance using the Hot-wire laser process** *Narutaka Nakamura[1] , Keita Marumoto[2], Motomichi Yamamoto[3], Shoichiro Yoshida[4], Taichi Nishida[5], Takayuki Murata[6],* *(Hiroshima University[1,2,3] Kawasaki Heavy Industries, Ltd [4,5,6])*	XV-1767-2026	Prof. Narutaka Nakamura *narunaru.zzzzz@gmail.com*	
16:20 - 16:40	**3.19 Development of a Narrow-Gap Horizontal Welding Method with High Bevel Width Allowance using the Hot-wire laser process** *Karoly Jarmai,* *(University of Miskolc[1])*	XV-1768-2026	Prof. Karoly Jarmai *karoly.jarmai@uni-miskolc.hu*	
16:40	4 SESSION 3: BUSINESS			
	4.1 Recommendation of papers for submission to WITW(decided by a vote of the delegates) **4.2 The election for a new chair of Sub-commission XV-B** **4.3 AOB**			Motion Required Discussion
	Next meetings & Open Discussion **(Intermediate Meeting of S-XV, Friday,** February **26, 2027, in Osaka, Japan, in a hybrid format, allowing both in-person and online participation)**			Information
17:10	**Closing Comments**			
	Adjournment of the Meeting of Commission XV			Information

15/July	**Joint Meeting(C-X + C-XIII + C-XV)**	*Venue*		
08:30 -10:15	***TECHNICAL PRESENTATION***	*Mozart4-5*		